NC/QC/W-13/2018-19/SM -W1 Date: 04-09-2018

## TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

**Sub**: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of Asphalting At 8th And Others Roads Santhoshnagara in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

## TEST RESULTS

**1. Gradation Test:**

**TABLE 1.1**

| Sieve Size mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Specified Limits as per MoRTH Specifications, V Revision-2013 |
|---|---|---|
| 53.00 | 100.00 | 100 |
| 45.00 | 98.15 | 95-100 |
| 26.50 | --- | - |
| 22.40 | 72.05 | 60-80 |
| 11.20 | 52.90 | 40-60 |
| 4.75 | 36.45 | 25-40 |
| 2.36 | 22.30 | 15-30 |
| 0.600 | 16.75 | 8-22 |
| 0.075 | 4.05 | 0-5 |

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

K R
M.E, (Civil-Engg)



Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 04-09-2018

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Aggregate Impact Value | 27.58 % | Not more than 30.00 % |
| 2. | Combined Flakiness and Elongation index, % | 28.06% | Not more than 35.0 % |
| 3. | Water absorption, % | 0.40 % | Not more than 2.0 % |
| 4. | Plasticity Index, % | NP | Not more than 6.0 % |

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/W-13/2018-19/SM -W2

Date: 07-09-2018

## TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

**Sub**: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of Asphalting At 8th And Others Roads Santhoshnagara in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

## TEST RESULTS

**1. Gradation Test:**

**TABLE 1.1**

| Sieve Size mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Specified Limits as per MoRTH Specifications, V Revision-2013 |
|---|---|---|
| 53.00 | 100.00 | 100 |
| 45.00 | 97.60 | 95-100 |
| 26.50 | --- | - |
| 22.40 | 78.05 | 60-80 |
| 11.20 | 45.60 | 40-60 |
| 4.75 | 34.15 | 25-40 |
| 2.36 | 23.80 | 15-30 |
| 0.600 | 18.10 | 8-22 |
| 0.075 | 3.45 | 0-5 |

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

K...R
KIRAN. R
M.E, (Civil-Engg)



Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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Date: 07-09-2018

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Aggregate Impact Value | 26.95% | Not more than 30.00 % |
| 2. | Combined Flakiness and Elongation index, % | 26.65 % | Not more than 35.0 % |
| 3. | Water absorption, % | 0.39 % | Not more than 2.0 % |
| 4. | Plasticity Index, % | NP | Not more than 6.0 % |

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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K... R
M.E, (Civil-Engg)



Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/W-13/2018-19/SM -BBM1 Date: 15-10-2018

## 1. TEST REPORT ON BITUMEN SAMPLE:

**Sub**: Testing of Bitumen sample VG-30 Grade used in Bituminous Macadam.
{Project*: Improvements of Asphalting At 8th And Others Roads Santhoshnagara in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

**TABLE 1.1 ;**

| SL No | Details | Test Results | Requirements as per I.S 73 –1992 Specifications |
|---|---|---|---|
| 1. | Penetration at $25^0$ C | **52.30$^0$ C** | Min. 45 |
| 2. | Ductility Value at $25^0$ C | **119 cm** | 40 |
| 3. | Flash point | **234$^0$ C** | Minimum 220$^0$ C |
| 4. | Softening point | **51.15$^0$ C** | Min. 47 |

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KIRAN. R
M.E, (Civil-Engg)



Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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